

01-29-03

1655

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PTO/SB/21 (08-00)

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Total Number Of Pages In This Submission

8

Application Number 09/613,006

Filing Date July 10, 2000

First Named Inventor Mark A. SCHENA

Group Art Unit 1655

Examiner Name B. Forman

TECH CENTER 1600

JAN 30 2003

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Attorney Docket No. 529492000100

ENCLOSURES (check all that apply)

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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Supplemental Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Communication (2 pages) Resume of Neil Winegarden (5 pages) Return receipt postcard
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Firm Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, California 94304

or Individual Name Gladys H. Monroy (Reg. No. 32,430)

Signature

Date January 27, 2003

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

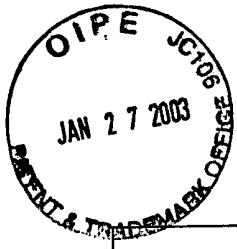
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Tamara Alcaraz

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PATENT
Docket No. 529492000100

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Tamara Alcaraz

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Mark A. Schena

Serial No.: 09/613,066

Filing Date: July 10, 2000

For: MICROARRAY METHOD OF
GENOTYPING MULTIPLE SAMPLES
AT MULTIPLE LOCI

Examiner: B. Forman

Group Art Unit: 1655

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COMMUNICATION

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

This communication pertains to the Response submitted December 13, 2002. Attached please find a copy of the resume of Neil Winegarden.

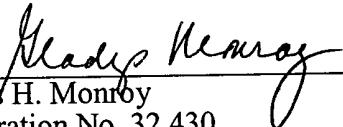
REMARKS

In the unlikely event that the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. 592492000100. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: January 27, 2003

By:


Gladys H. Monroe
Registration No. 32,430

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Neil Winegarden

5958 Blue Spruce Avenue
Burlington, ON, Canada
L7L 6T9
(416) 340-4378 (Cell)
winegard@uhnres.utoronto.ca

Professional Experience

2002 – Present University Health Network Toronto, ON

Head of Operations, Microarray Centre

- Oversee the day to day operations of the Microarray Centre
- Supervise a team of 18-20 staff, including 2 managers
- Coordinate the larger staff of 30, including 3 research scientists
- Coordinate research of a large project group for Genome Canada Grant
- Assist in administering 4 grants worth over \$12M in total
- Recruit technical and management staff
- Assist in the recruitment of an engineering manager to start a new automation team
- Direct research and development in the Microarray Centre
- Recruit partnerships from the biotechnology industry for new product and technology development
- Deliver presentations on microarray technology and new developments at internationally held workshops and conferences
- Draft contracts and transfer agreements
- Coordinate marketing of the Microarray Centre including arranging for booths at tradeshows
- Organize international symposiums on microarray technology in partnership with the Professional Development Centre of the University of Toronto.

1999-2002 University Health Network Toronto, ON

Manager of Commercialization and External Contracts, Microarray Centre

- Assisted in development, marketing and testing of advanced robotic components for high throughput molecular biology applications
- Recruited partnerships from the biotechnology industry for novel technology development
- Marketed products and services generated through the microarray laboratory at the University Health Network
- Delivered presentations on current technologies in the laboratory at internationally held workshops and conferences
- Developed partnerships with leading commercial biotechnology companies for co-development and testing of novel products
- Further designed and wrote software for data analysis and visualization
- Drafted contracts and transfer agreements
- Recruited, trained and supervised technicians in the microarray technology laboratory

- Directed research and development in the microarray technology laboratory
- Organized international symposiums on microarray technology in partnership with the Professional Development Centre of the University of Toronto.

1998 – 1999 Ontario Cancer Institute, Princess Margaret Hospital Toronto, ON

Research Technician Level 4, Microarray Laboratory

- Assisted in the development of an advanced robotic microarray fabrication system
- Developed robotic operating protocols through software design for microarray printing
- Assisted in the development of protocols for microarray manufacture, usage, and analysis
- Presented seminars on microarray technology at international workshops (by invitation)
- Developed partnerships with biotechnology companies to act as beta-testers for new hardware, software and molecular biology products
- Assisted in the training of researchers for use of array technology
- Designed and wrote software programs for data analysis and visualization
- Assisted in the design of advanced bioinformatics software for data collection and warehousing

1998 Allelix Pharmaceuticals Mississauga, ON

Research Associate, New Technology and Virology Departments

- Assisted in the implementation of genetic microarray technology
- Helped coordinate efforts to develop highly specific probes
- Developed software modules to control a prototype robot for array fabrication
- Suggested and tested new methods to improve and advance the technology
- Developed new screening technologies to find novel antiviral agents
- Adapted existing technologies to a high-throughput platform

Education

1994-1997 M.Sc.	University of Toronto	Mississauga, ON
	<ul style="list-style-type: none">• Molecular Cell Biology – Zoology Department• Heat Shock Gene Regulation• Transcription regulation, biochemistry focus	
1990-1994 B.Sc.	University of Toronto	Mississauga, ON
	<ul style="list-style-type: none">• Honours Bachelor's degree in biology and minor in chemistry	

Other Training

2001	Professional Development Centre, University of Toronto Advanced Project Management	Toronto, ON
2001	Professional Development Centre, University of Toronto Hands on Microsoft Project	Toronto, ON
1996	Sheridan College Introductory and Advanced C Programming	Brampton, ON

Publications

Invited Reviews

Winegarden, N., Chen, L., and X. Chen, 2002. "Microarrays – Looking at the world thousands of genes at a time". Chinese Medical Journal, In press

Winegarden, N. and J. Woodgett, 2001. "Microarrays and Drug Discovery", World Markets Business Briefing, Pharmatech 2001, pp 130-132.

Peer Reviewed Publications

Iscove, N.N., Barbara, M., Gu, M., Gibson, M., Modi, C., and N. Winegarden, 2002. "Representation is faithfully preserved in global cDNA amplified exponentially from sub-picogram quantities of mRNA". Nature Biotechnology, In Press (Expected September).

Chang, W.Y., Winegarden, N.A., Paraiso, J.P., Stevens, M.L., and J.T. Westwood, 2000. "Visualization of nascent transcripts on Drosophila polytene chromosomes using BrUTP incorporation". Biotechniques, Vol. 29, pp934-6

Mercier, P. A., Winegarden, N.A. and J.T. Westwood, 1999. "Human heat shock factor 1 is predominantly a nuclear protein before and after heat stress". Journal of Cell Science, Vol. 112, pp 2765-2774

Winegarden, N., Wong, K., Sopta, M., and J.T. Westwood, 1996. "Sodium salicylate decreases intracellular ATP, induces both heat shock factor binding and chromosomal puffing, but does not induce hsp 70 gene transcription in *Drosophila*". Journal of Biological Chemistry, Vol. 271, pp 26971-80

Patents

A patent entitled "Methods for Production of Microarrays of Biological Samples" has been filed in Canada and the United States of America.

- Canadian patent October 3rd, 2000 (#2,322,086)
- US provisional patent October 4th, 2000 (60/237,369)
- Methods related to the use, function and design of a microarraying robot.
- Methods related to the calibration of the robotics, testing of arrayer accuracy and quality control of arrays.

Invited Presentations

October 27-31, 2002	Chips to Hits 2002 <ul style="list-style-type: none">• Philadelphia, PA, USA
September 6-9, 2002	3 rd Annual BioMEMS & Biomedical NANotech World 2002 <ul style="list-style-type: none">• Columbus, OH, USA
July 3, 2002	International Association for Food Protection Annual Meeting <ul style="list-style-type: none">• San Diego, CA, USA
May 14-21, 2002	Stratagene/Iobion – Got Genes Road Show <ul style="list-style-type: none">• Evry, France• Heidelberg, Germany• London, England
April 22-26, 2002	Stratagene/Iobion – Got Genes Road Show <ul style="list-style-type: none">• San Diego, CA, USA• San Francisco, CA, USA• Raleigh, NC, USA• Boston, MA, USA
January 16, 2002	Plant and Animal Genome X – Microarray Breakout Session <ul style="list-style-type: none">• San Diego, CA, USA
July 9, 2001	Biochip Technology Seminar <ul style="list-style-type: none">• Tokyo, Japan
June 1, 2001	CFBS Annual Meeting – Microarray Breakout Session <ul style="list-style-type: none">• Nottawasaga, Ontario
January 17, 2001	Plant and Animal Genome IX – ArrayIt Microarray Breakout Session <ul style="list-style-type: none">• San Diego, CA, USA

November 6-9, 2000	Chips to Hits 2000
	• Philadelphia, PA, USA
November 16-18, 1999	International Microarray Users Forum
	• Burley, Hants, UK
June 9-10, 1999	Workshop on Genomic Micro-arrays Technology
	• Tokyo, Japan
November 9-10, 1999	Workshop on Microarray Technology
	• Irvine, CA, USA
June 15-16, 1999	Technology Workshop on Genomic Microarrays
	• Arlington, VA, USA

Symposia Organized

October 23-25, 2001	2nd Annual Ontario Microarray Network Technology Symposium
	• Toronto, Ontario
November 1-2, 2000	1st Annual Ontario Microarray Network Technology Symposium
	• Toronto, Ontario
June 13, 1999	University Health Network Microarray Infosession
	• Toronto, Ontario